FIG. 1

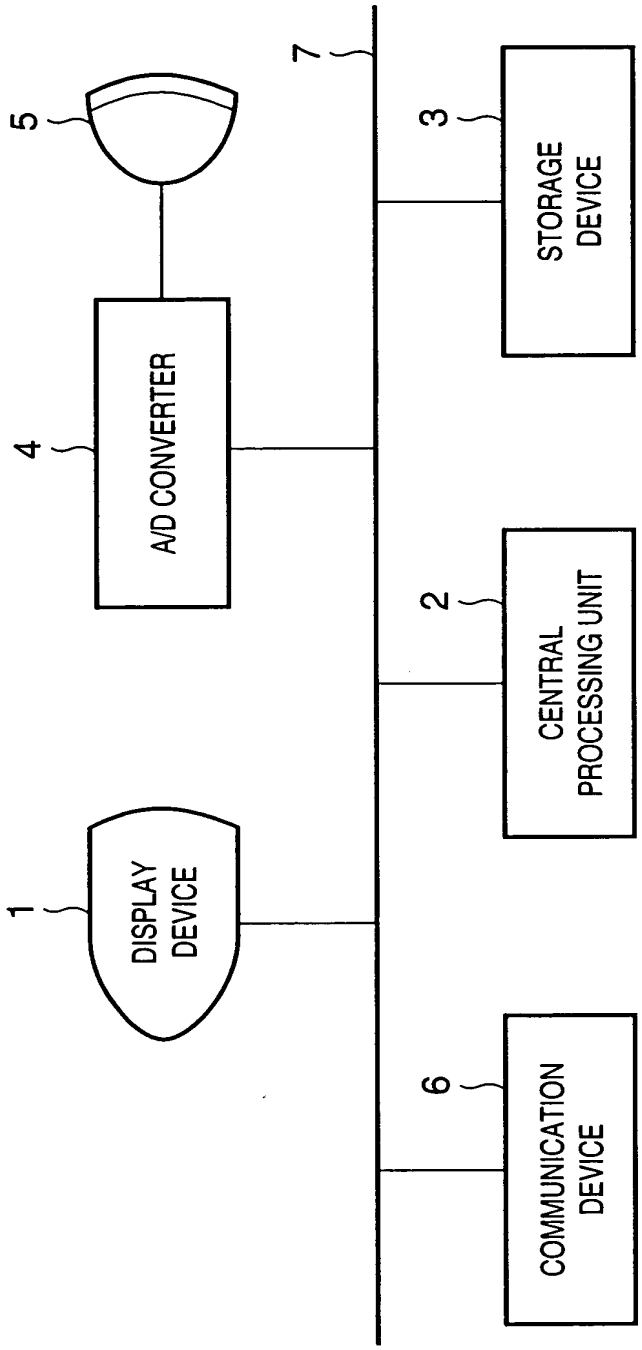

1
DISPLAY DEVICE
2
CENTRAL PROCESSING UNIT
3
STORAGE DEVICE
4
A/D CONVERTER
5
6
COMMUNICATION DEVICE
7

FIG. 2

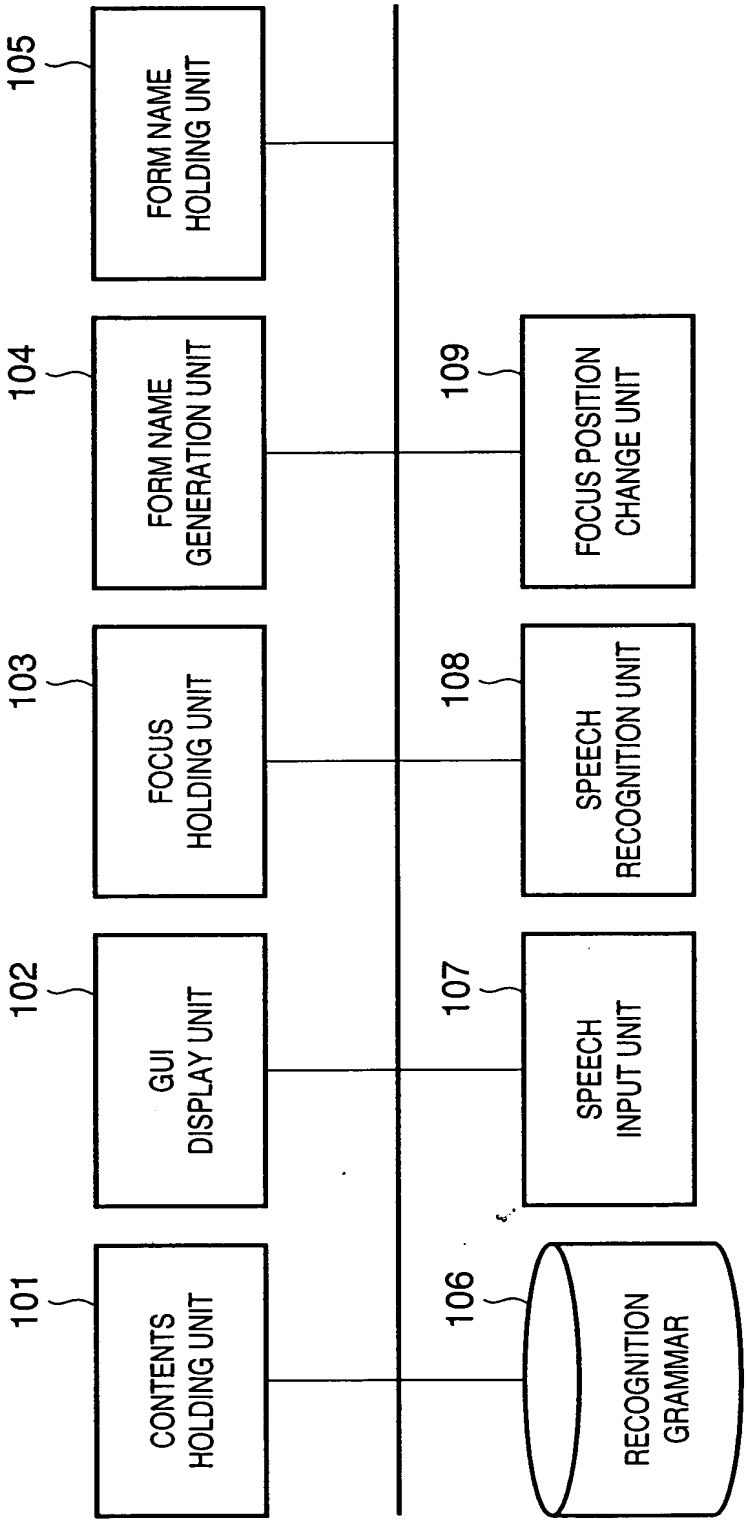

101
CONTENTS HOLDING UNIT
102
GUI DISPLAY UNIT
103
FOCUS HOLDING UNIT
104
FORM NAME GENERATION UNIT
105
FORM NAME HOLDING UNIT
106
RECOGNITION GRAMMAR
107
SPEECH INPUT UNIT
108
SPEECH RECOGNITION UNIT
109
FOCUS POSITION CHANGE UNIT

FIG. 3

INPUT FORM	PRONUNCIATION
ID NUMBER	aɪdiː nʌmbɚ
NAME	neɪm
GENDER	dʒendɚ
HOME ADDRESS	houm ədres
TELEPHONE NUMBER	teləfoun nʌmbɚ
PORTABLE PHONE/PHS	pɔɚtəbl foun/piː eɪtʃ es
FAX	fæks
E-mail	iː meɪl
OCCUPATION	ɑkjupeɪʃən
ORGANIZATION NAME	ɔɚgənɪzeɪʃən neɪm
AFFILIATION	əfɪlieɪʃən
POSITION	pəzɪʃən
ADDRESS	ədres

FIG. 4

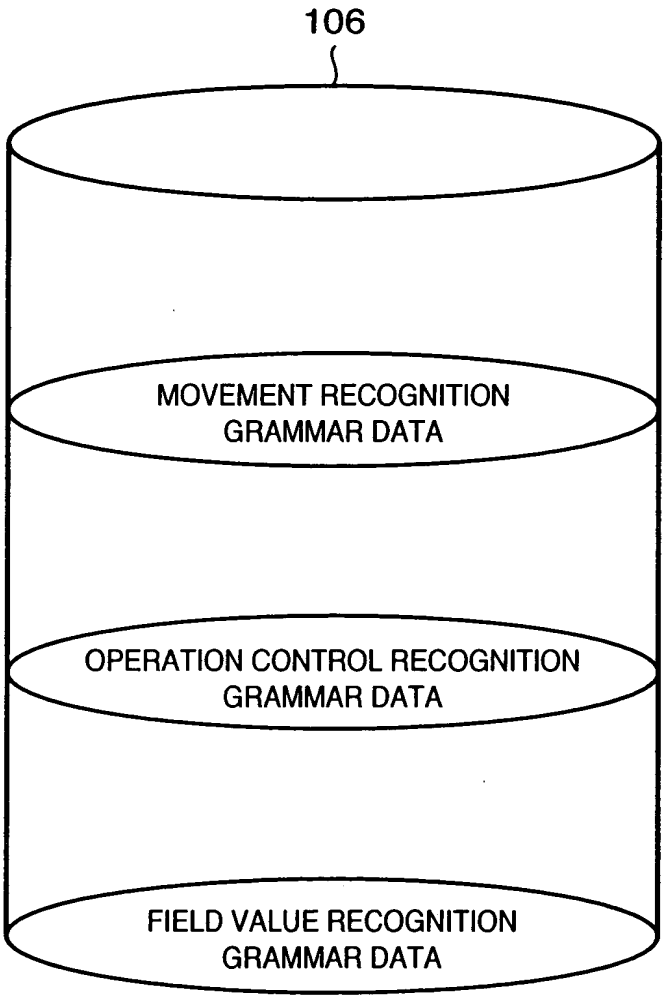

106
MOVEMENT RECOGNITION GRAMMAR DATA
OPERATION CONTROL RECOGNITION GRAMMAR DATA
FIELD VALUE RECOGNITION GRAMMAR DATA

FIG. 5

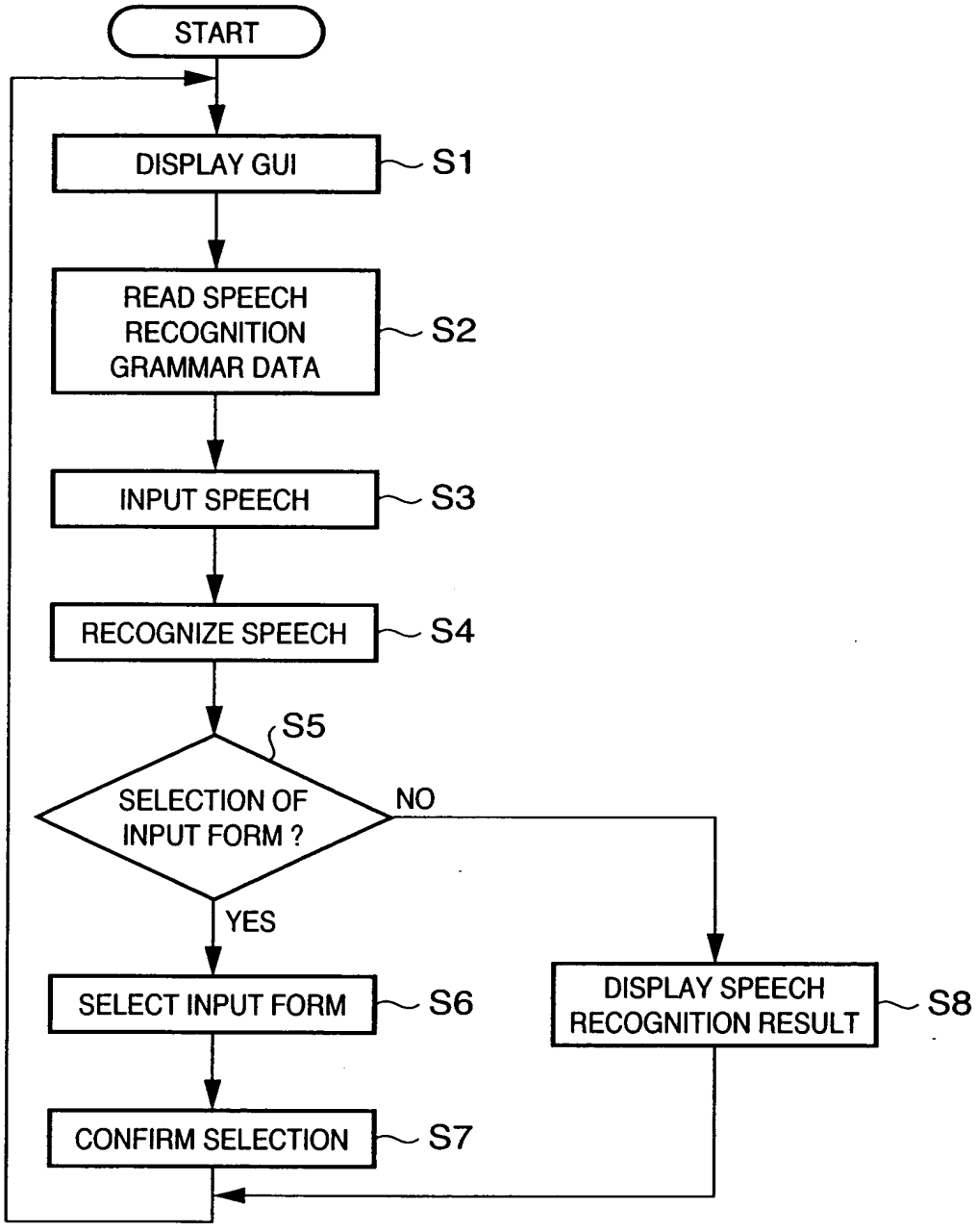

START
DISPLAY GUI
S1
READ SPEECH RECOGNITION GRAMMAR DATA
S2
INPUT SPEECH
S3
RECOGNIZE SPEECH
S4
S5
SELECTION OF INPUT FORM ?
NO
YES
SELECT INPUT FORM
S6
CONFIRM SELECTION
S7
DISPLAY SPEECH RECOGNITION RESULT
S8

FIG. 6

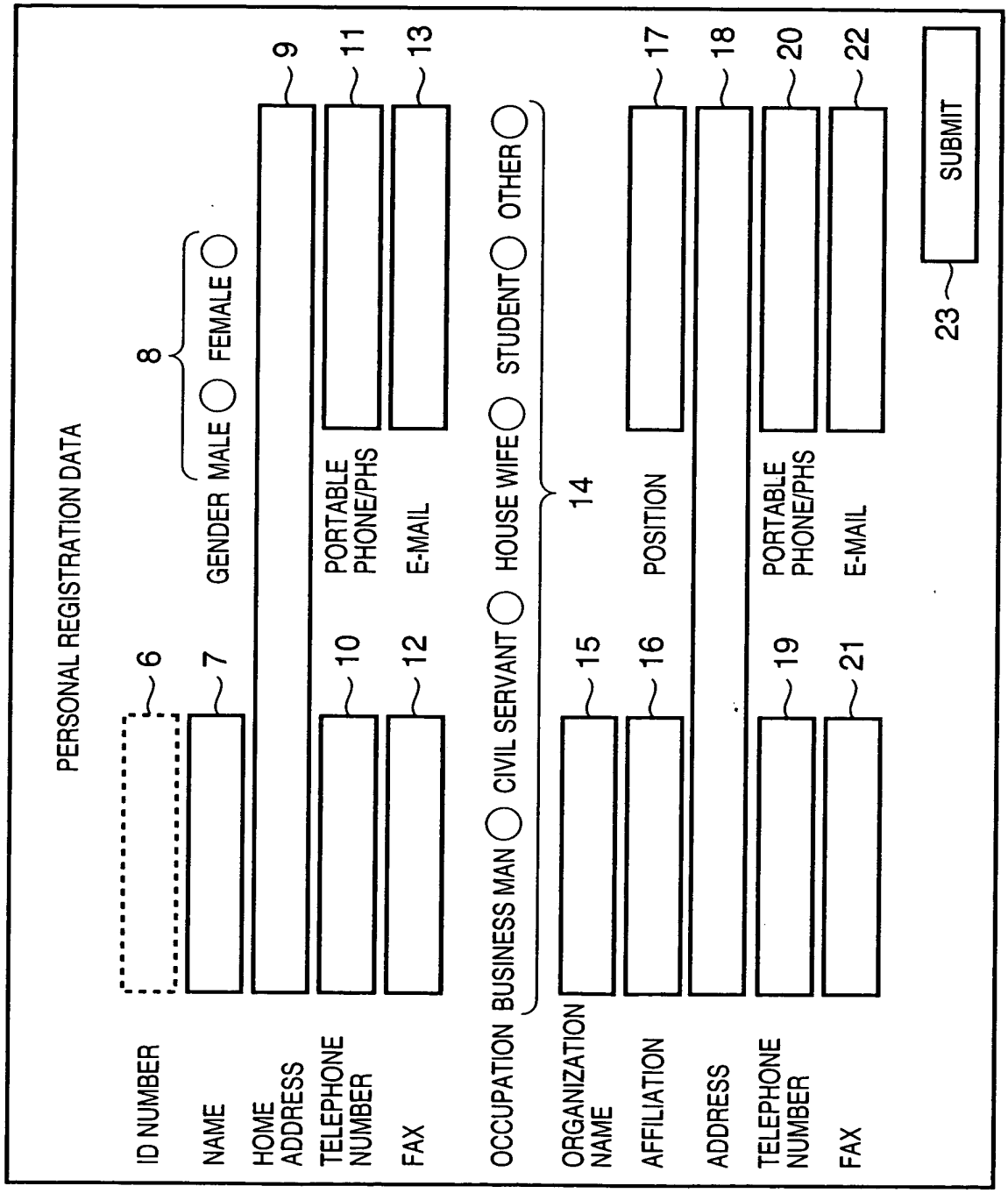
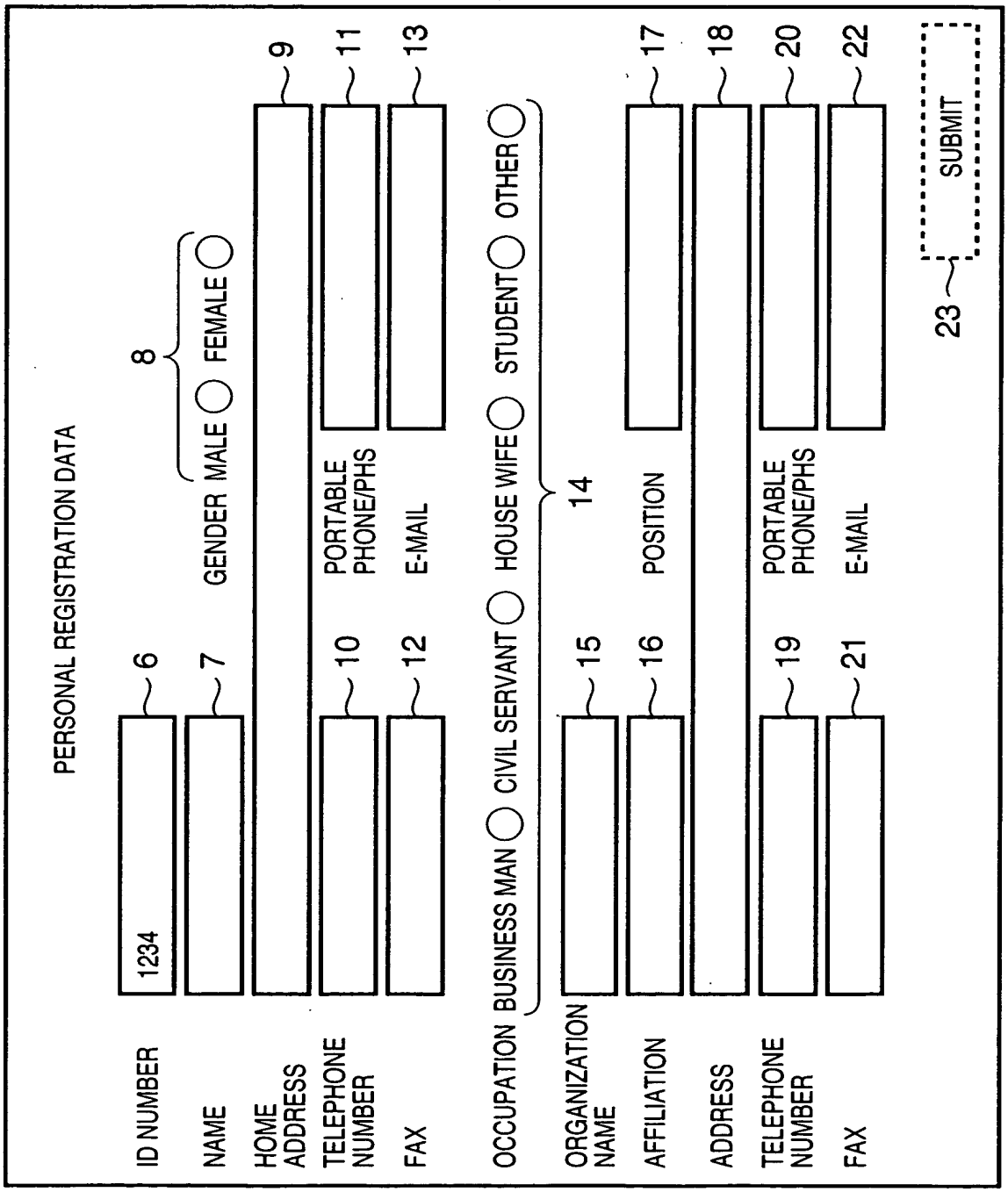

PERSONAL REGISTRATION DATA
ID NUMBER
6
NAME
7
GENDER MALE FEMALE
8
HOME ADDRESS
9
TELEPHONE NUMBER
10
PORTABLE PHONE/PHS
11
FAX
12
E-MAIL
13
OCCUPATION BUSINESS MAN CIVIL SERVANT HOUSE WIFE STUDENT OTHER
14
ORGANIZATION NAME
15
AFFILIATION
16
POSITION
17
ADDRESS
18
TELEPHONE NUMBER
19
PORTABLE PHONE/PHS
20
FAX
21
E-MAIL
22
23
SUBMIT

FIG. 7


PERSONAL REGISTRATION DATA
ID NUMBER
1234
6
NAME
7
GENDER MALE FEMALE
8
HOME ADDRESS
9
TELEPHONE NUMBER
10
PORTABLE PHONE/PHS
11
FAX
12
E-MAIL
13
OCCUPATION BUSINESS MAN CIVIL SERVANT HOUSE WIFE STUDENT OTHER
14
ORGANIZATION NAME
15
AFFILIATION
16
POSITION
17
ADDRESS
18
TELEPHONE NUMBER
19
PORTABLE PHONE/PHS
20
FAX
21
E-MAIL
22
23
SUBMIT

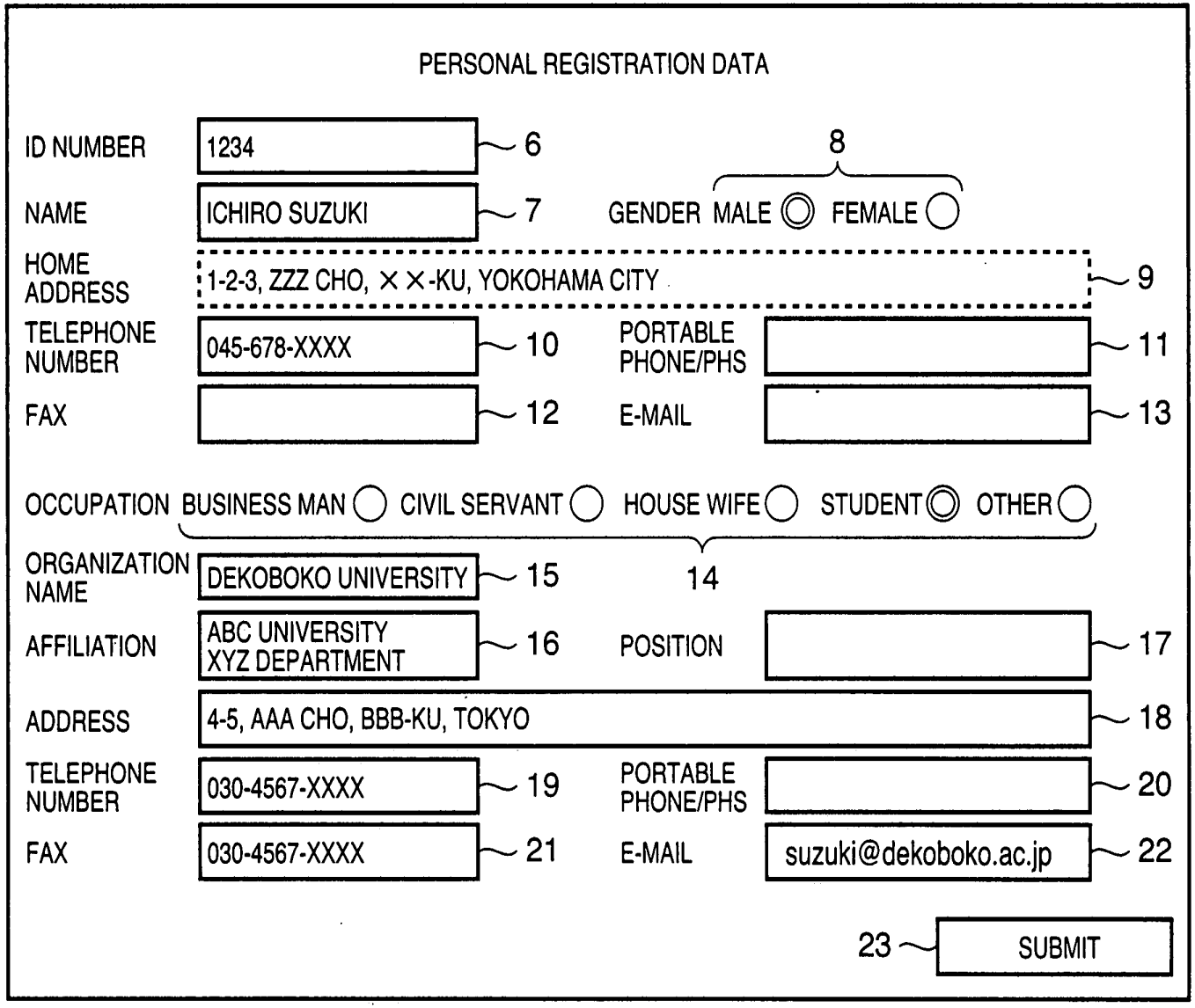

PERSONAL REGISTRATION DATA
ID NUMBER
1234
6
8
NAME
ICHIRO SUZUKI
7
GENDER MALE FEMALE
HOME ADDRESS
1-2-3, ZZZ CHO, ××-KU, YOKOHAMA CITY
9
TELEPHONE NUMBER
045-678-XXXX
10
PORTABLE PHONE/PHS
11
FAX
12
E-MAIL
13
OCCUPATION BUSINESS MAN CIVIL SERVANT HOUSE WIFE STUDENT OTHER
14
ORGANIZATION NAME
DEKOBOKO UNIVERSITY
15
AFFILIATION
ABC UNIVERSITY XYZ DEPARTMENT
16
POSITION
17
ADDRESS
4-5, AAA CHO, BBB-KU, TOKYO
18
TELEPHONE NUMBER
030-4567-XXXX
19
PORTABLE PHONE/PHS
20
FAX
030-4567-XXXX
21
E-MAIL
suzuki@dekoboko.ac.jp
22
23
SUBMIT

FIG. 8

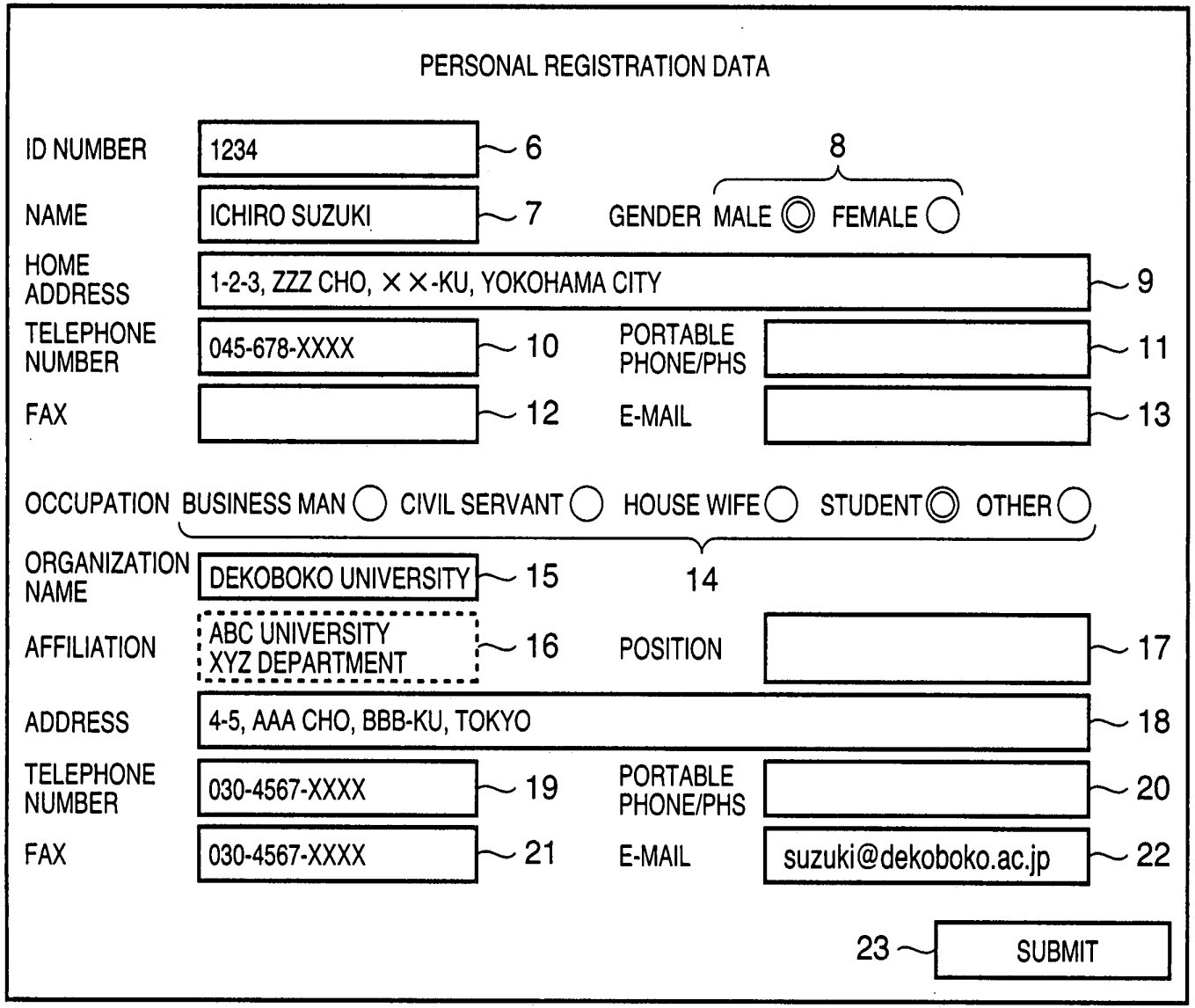

PERSONAL REGISTRATION DATA
ID NUMBER
1234
6
8
NAME
ICHIRO SUZUKI
7
GENDER MALE FEMALE
HOME ADDRESS
1-2-3, ZZZ CHO, ××-KU, YOKOHAMA CITY
9
TELEPHONE NUMBER
045-678-XXXX
10
PORTABLE PHONE/PHS
11
FAX
12
E-MAIL
13
OCCUPATION
BUSINESS MAN
CIVIL SERVANT
HOUSE WIFE
STUDENT
OTHER
14
ORGANIZATION NAME
DEKOBOKO UNIVERSITY
15
AFFILIATION
ABC UNIVERSITY XYZ DEPARTMENT
16
POSITION
17
ADDRESS
4-5, AAA CHO, BBB-KU, TOKYO
18
TELEPHONE NUMBER
030-4567-XXXX
19
PORTABLE PHONE/PHS
20
FAX
030-4567-XXXX
21
E-MAIL
suzuki@dekoboko.ac.jp
22
23
SUBMIT

FIG. 9

FIG. 10

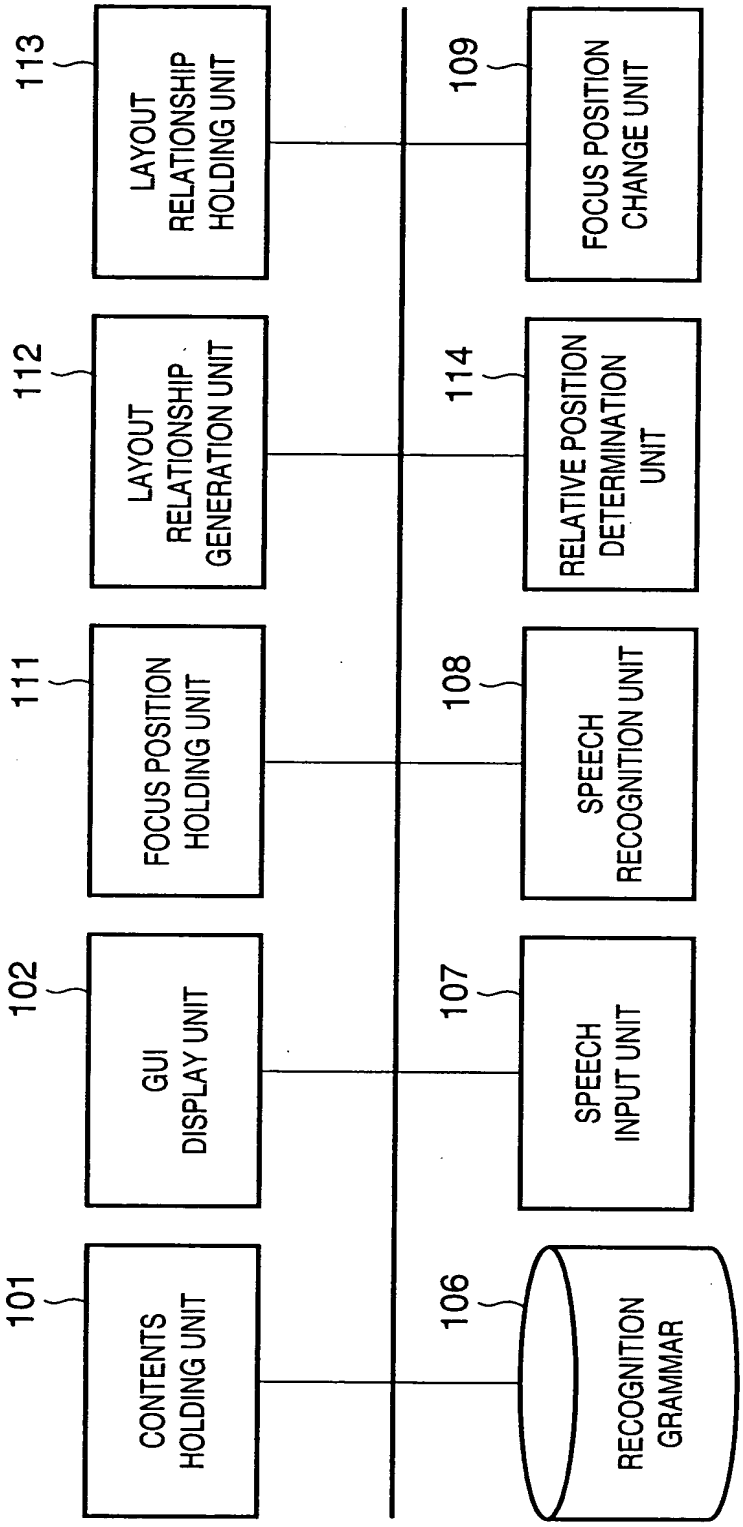
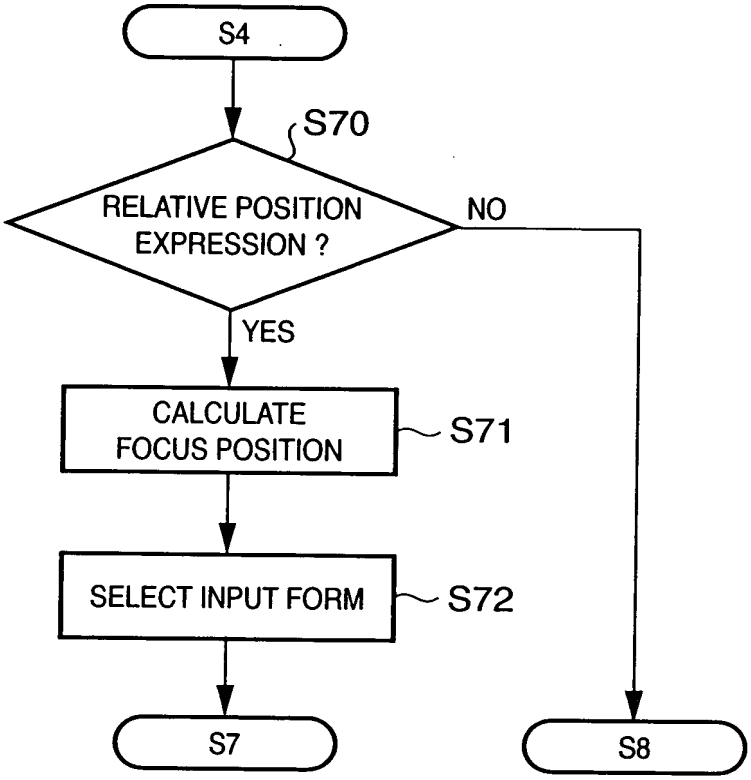

101
CONTENTS HOLDING UNIT
102
GUI DISPLAY UNIT
111
FOCUS POSITION HOLDING UNIT
112
LAYOUT RELATIONSHIP GENERATION UNIT
113
LAYOUT RELATIONSHIP HOLDING UNIT
106
RECOGNITION GRAMMAR
107
SPEECH INPUT UNIT
108
SPEECH RECOGNITION UNIT
114
RELATIVE POSITION DETERMINATION UNIT
109
FOCUS POSITION CHANGE UNIT

FIG. 11

INPUT FORM NAME	LAYOUT
ID NUMBER	(1, 1)
NAME	(2, 1)
GENDER	(2, 3)
HOME ADDRESS	(3, 1)
TELEPHONE NUMBER	(4, 1)
PORTABLE PHONE/PHS	(4, 2)
FAX	(5, 1)
E-mail	(5, 2)
OCCUPATION	(6, 1)
ORGANIZATION NAME	(7, 1)
AFFILIATION	(8, 1)
POSITION	(8, 2)
ADDRESS	(9, 1)
TELEPHONE NUMBER	(10, 1)
PORTABLE PHONE/PHS	(10, 2)
FAX	(11, 1)
E-mail	(11, 2)

FIG. 12


S4
S70
RELATIVE POSITION EXPRESSION ?
NO
YES
CALCULATE FOCUS POSITION
S71
SELECT INPUT FORM
S72
S7
S8

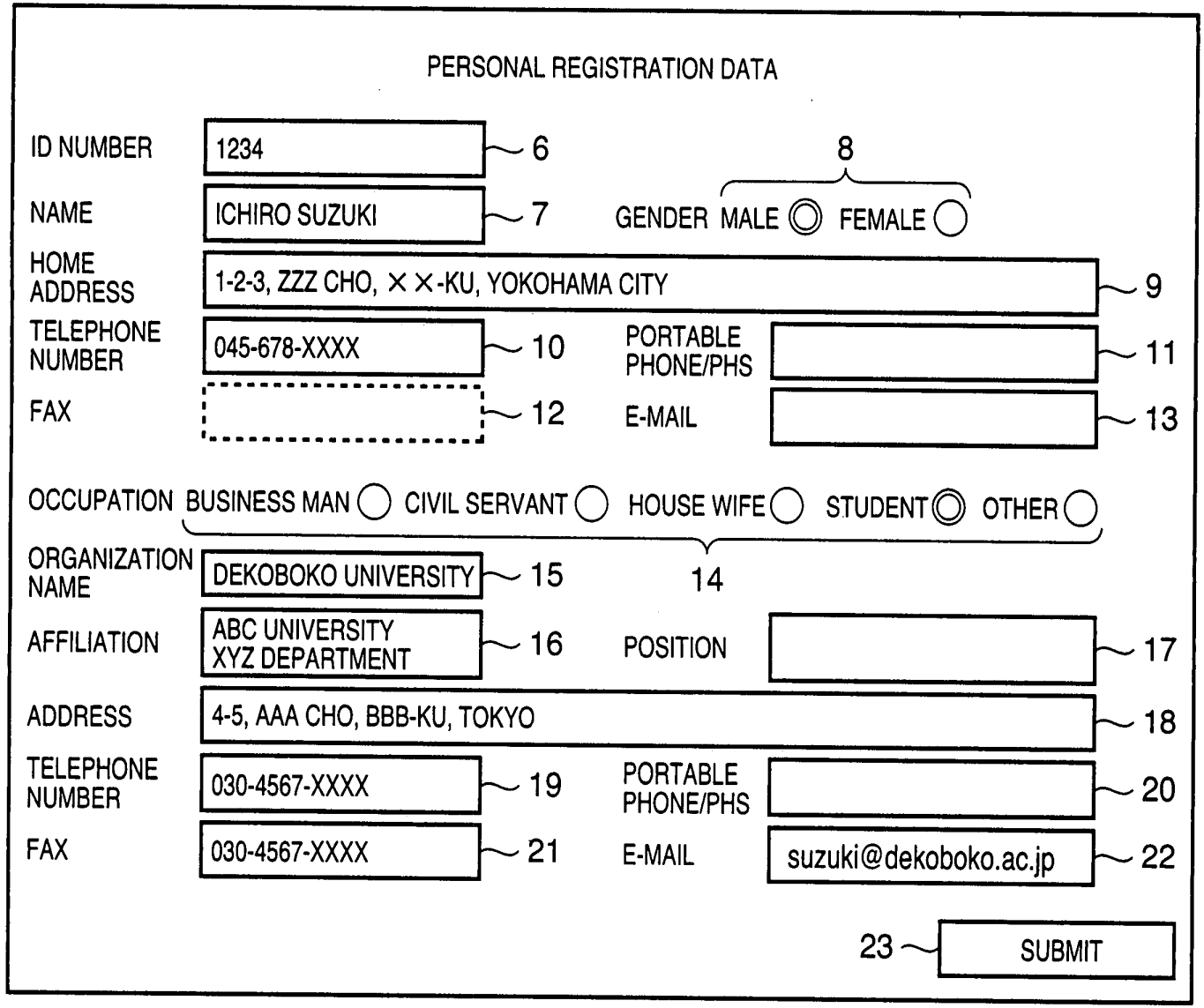
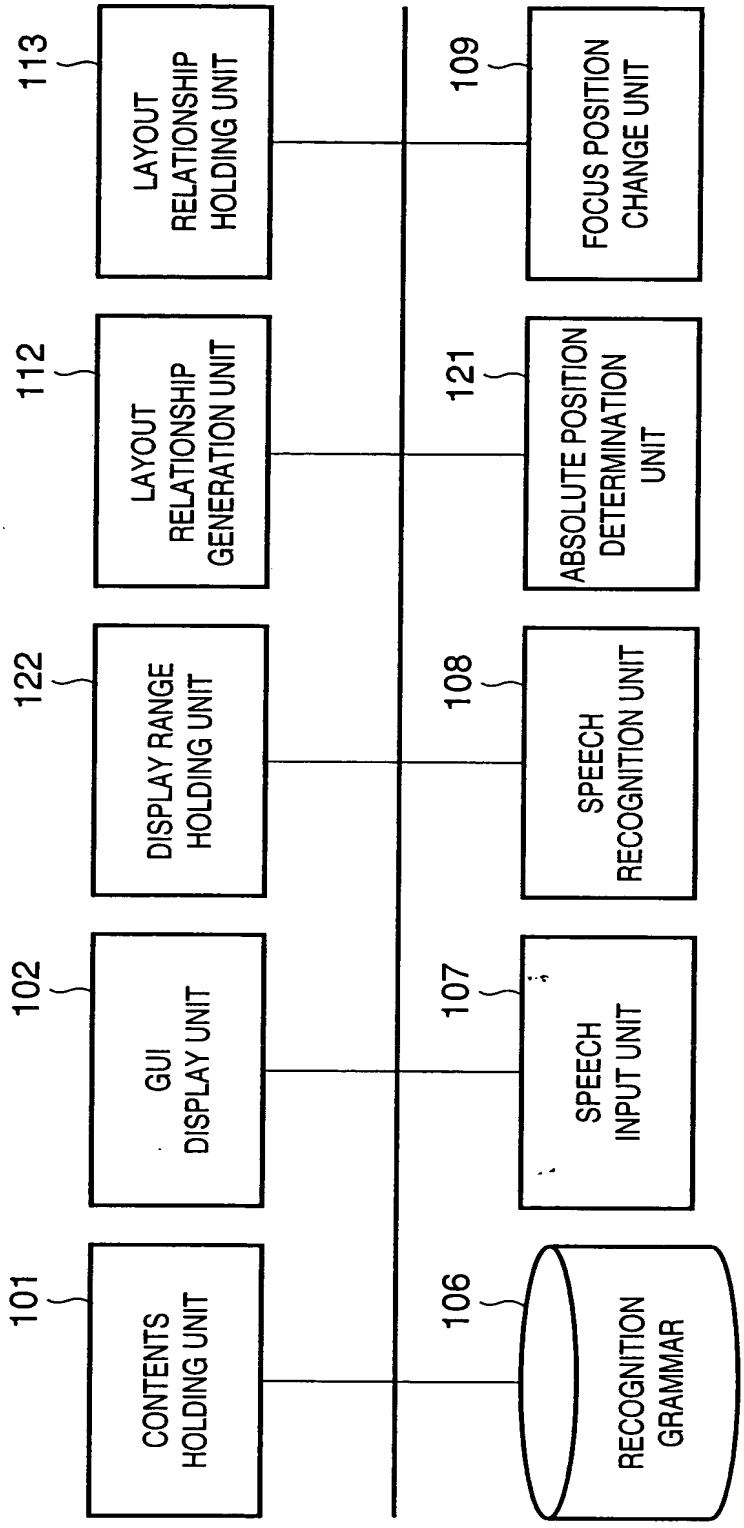

PERSONAL REGISTRATION DATA
ID NUMBER
1234
6
8
NAME
ICHIRO SUZUKI
7
GENDER MALE FEMALE
HOME ADDRESS
1-2-3, ZZZ CHO, ××-KU, YOKOHAMA CITY
9
TELEPHONE NUMBER
045-678-XXXX
10
PORTABLE PHONE/PHS
11
FAX
12
E-MAIL
13
OCCUPATION
BUSINESS MAN
CIVIL SERVANT
HOUSE WIFE
STUDENT
OTHER
14
ORGANIZATION NAME
DEKOBOKO UNIVERSITY
15
AFFILIATION
ABC UNIVERSITY XYZ DEPARTMENT
16
POSITION
17
ADDRESS
4-5, AAA CHO, BBB-KU, TOKYO
18
TELEPHONE NUMBER
030-4567-XXXX
19
PORTABLE PHONE/PHS
20
FAX
030-4567-XXXX
21
E-MAIL
suzuki@dekoboko.ac.jp
22
23
SUBMIT

FIG. 13

FIG. 14


101
CONTENTS HOLDING UNIT
102
GUI DISPLAY UNIT
122
DISPLAY RANGE HOLDING UNIT
112
LAYOUT RELATIONSHIP GENERATION UNIT
113
LAYOUT RELATIONSHIP HOLDING UNIT
106
RECOGNITION GRAMMAR
107
SPEECH INPUT UNIT
108
SPEECH RECOGNITION UNIT
121
ABSOLUTE POSITION DETERMINATION UNIT
109
FOCUS POSITION CHANGE UNIT

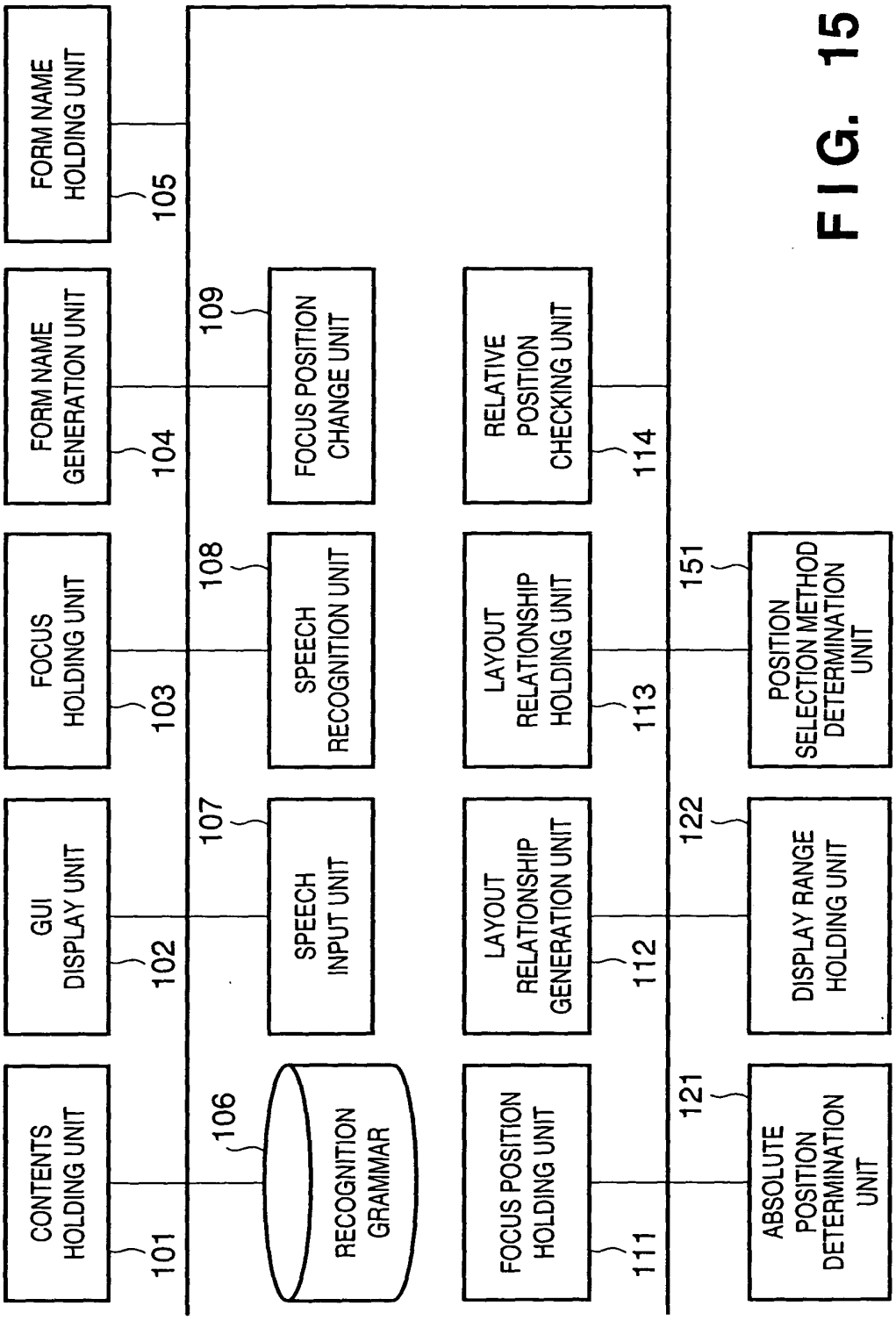

CONTENTS HOLDING UNIT
101
GUI DISPLAY UNIT
102
FOCUS HOLDING UNIT
103
FORM NAME GENERATION UNIT
104
FORM NAME HOLDING UNIT
105
RECOGNITION GRAMMAR
106
SPEECH INPUT UNIT
107
SPEECH RECOGNITION UNIT
108
FOCUS POSITION CHANGE UNIT
109
FOCUS POSITION HOLDING UNIT
111
LAYOUT RELATIONSHIP GENERATION UNIT
112
LAYOUT RELATIONSHIP HOLDING UNIT
113
RELATIVE POSITION CHECKING UNIT
114
ABSOLUTE POSITION DETERMINATION UNIT
121
DISPLAY RANGE HOLDING UNIT
122
POSITION SELECTION METHOD DETERMINATION UNIT
151

FIG. 15

FIG. 16

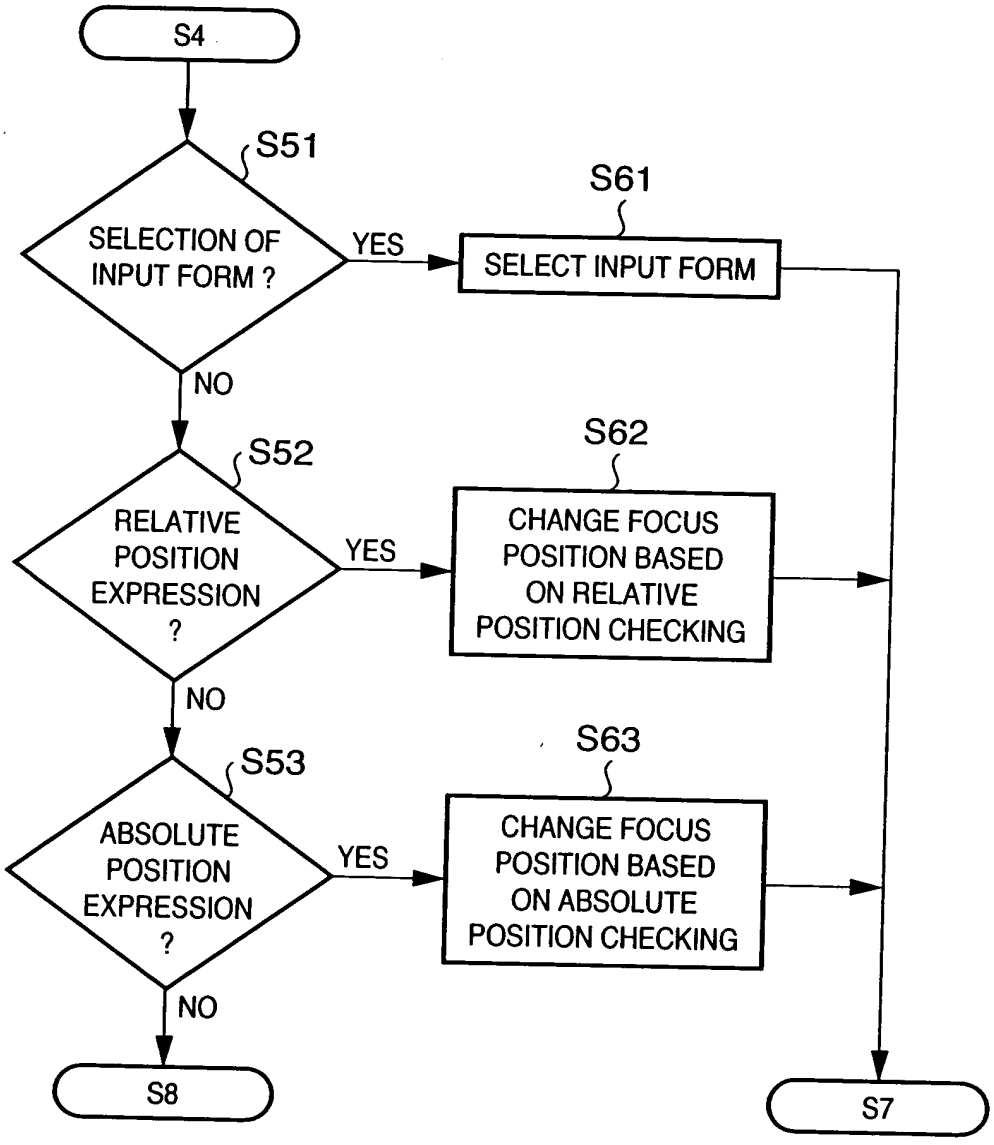
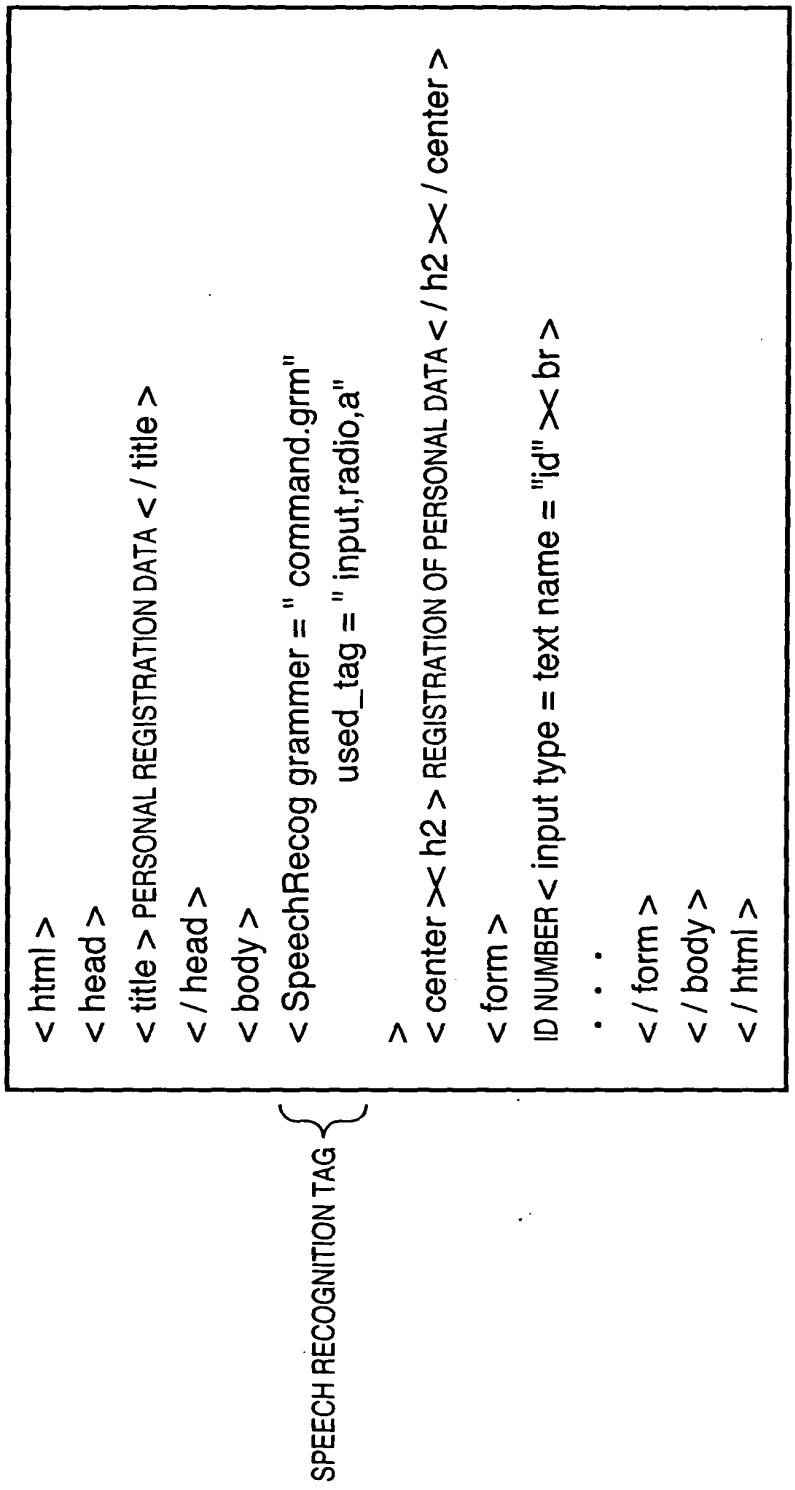

S4
S51
SELECTION OF INPUT FORM ?
YES
S61
SELECT INPUT FORM
NO
S52
RELATIVE POSITION EXPRESSION ?
YES
S62
CHANGE FOCUS POSITION BASED ON RELATIVE POSITION CHECKING
NO
S53
ABSOLUTE POSITION EXPRESSION ?
YES
S63
CHANGE FOCUS POSITION BASED ON ABSOLUTE POSITION CHECKING
NO
S8
S7

FIG. 17

INPUT FORM NAME	LAYOUT	TYPE OF TAG
ID NUMBER	(1, 1)	input
NAME	(2, 1)	input
GENDER	(2, 2)	radio
HOME ADDRESS	(3, 1)	input
TELEPHONE NUMBER	(4, 1)	input
PORTABLE PHONE/PHS	(4, 2)	input
FAX	(5, 1)	input
E-mail	(5, 2)	input
OCCUPATION	(6, 1)	radio
ORGANIZATION NAME	(7, 1)	input
AFFILIATION	(8, 1)	input
POSITION	(8, 2)	input
ADDRESS	(9, 1)	input
TELEPHONE NUMBER	(10, 1)	input
PORTABLE PHONE/PHS	(10, 2)	input
FAX	(11, 1)	input
E-mail	(11, 2)	input

FIG. 18


< html >
< head >
< title > PERSONAL REGISTRATION DATA < / title >
< / head >
< body >
< SpeechRecog grammer = " command.grm"
used_tag = " input,radio,a"
>
SPEECH RECOGNITION TAG
< center >< h2 > REGISTRATION OF PERSONAL DATA < / h2 >< / center >
< form >
ID NUMBER < input type = text name = "id" >< br >
. . .
< / form >
< / body >
< / html >